

KNOWLEDGE BASE ARTICLE

Display Custom Attribute of an Azure AD User in Employee Directory

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Extension attributes in the on-premise active directory (AD) allow extending directory objects with new attributes. These attributes may be synchronized with **Azure AD**. Once the attributes are synced, you may display them on the SharePoint site and Microsoft Teams with the Employee Directory web part.

This article describes how to set up the Employee Directory web part to display custom attributes of user object from Azure AD.

Attribute Name

Custom attributes are not named like they are in the on-premises AD, for example, *fax*. Instead, the custom attribute' name in Azure AD is like below:

```
extension_{uniqueid}_attributeName
```

Therefore to use custom attributes, you need to retrieve their names from Azure AD.

Precondition

Additional PowerShell modules are required to interact with the Microsoft 365 environment. Open PowerShell and run the following cmdlets to install **MSOnline** and **AzureAD** modules:

```
Install-Module -Name MSOnline
```

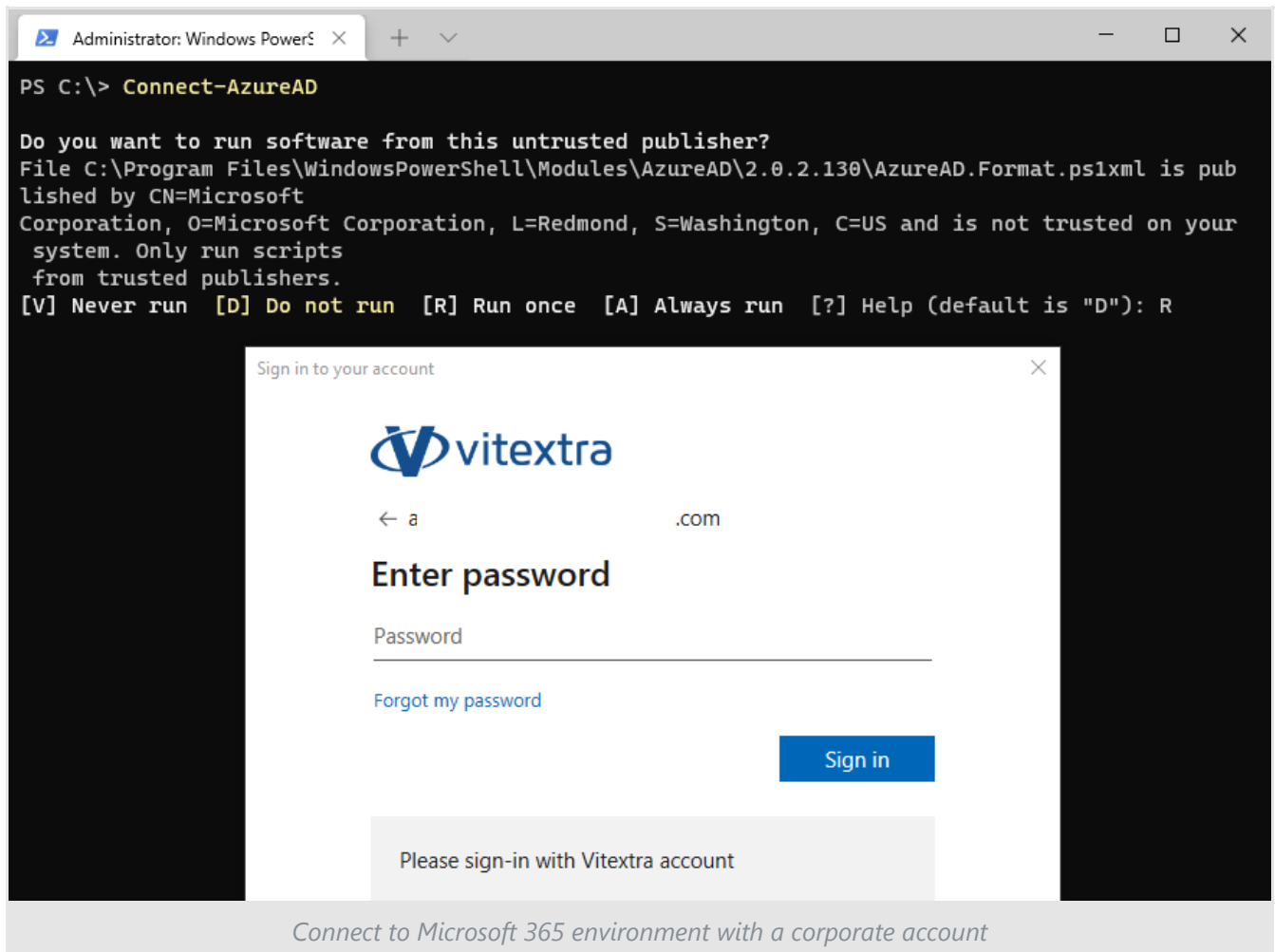
```
Install-Module -Name AzureAD
```

Connect to your environment

Run the *Connect-AzureAD* cmdlet to connect to your Microsoft 365 environment.

Connect-AzureAD

And sign in with your corporate account.

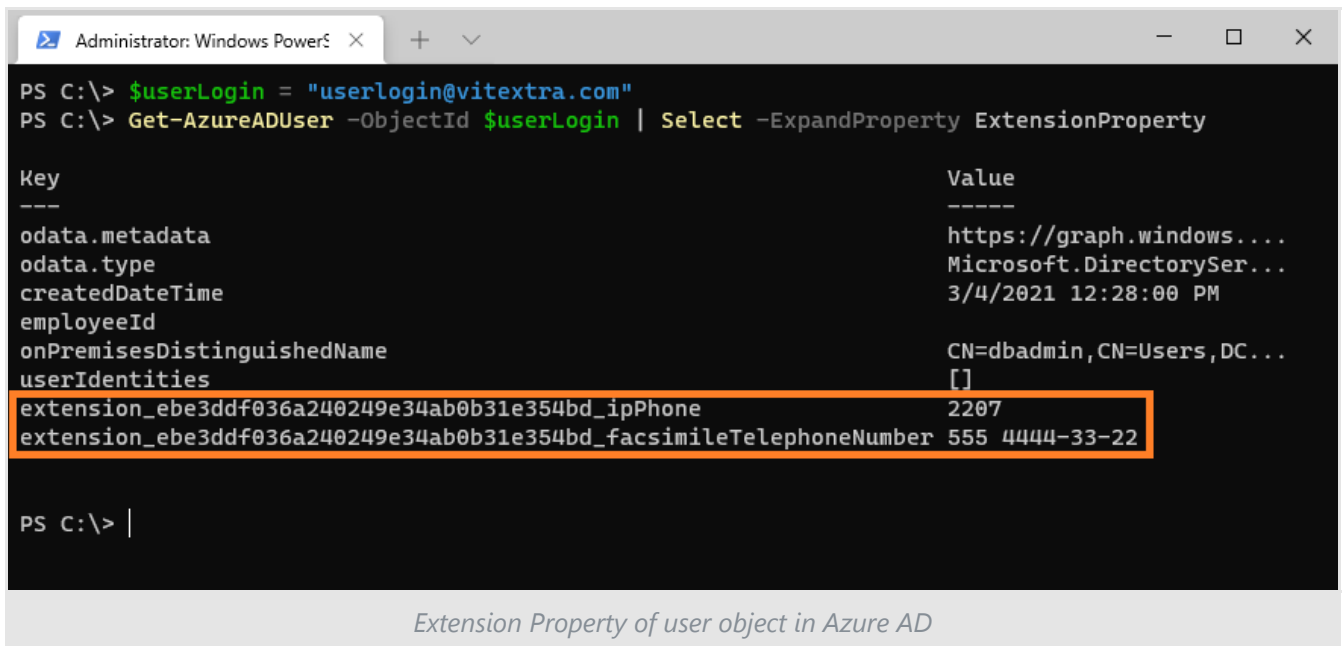


Getting Custom Attributes

Replace `dbadmin@vitextra.onmicrosoft.com` with the user login in your Azure AD, which has the necessary attributes, and run the script below.

```
$userLogin = "dbadmin@vitextra.onmicrosoft.com"
Get-AzureADUser -ObjectId $userLogin | Select -ExpandProperty
ExtensionProperty
```

The result listed extension properties that may be used as custom attributes in the Employee Directory web part.



```
PS C:\> $userLogin = "userlogin@vitextra.com"
PS C:\> Get-AzureADUser -ObjectId $userLogin | Select -ExpandProperty ExtensionProperty

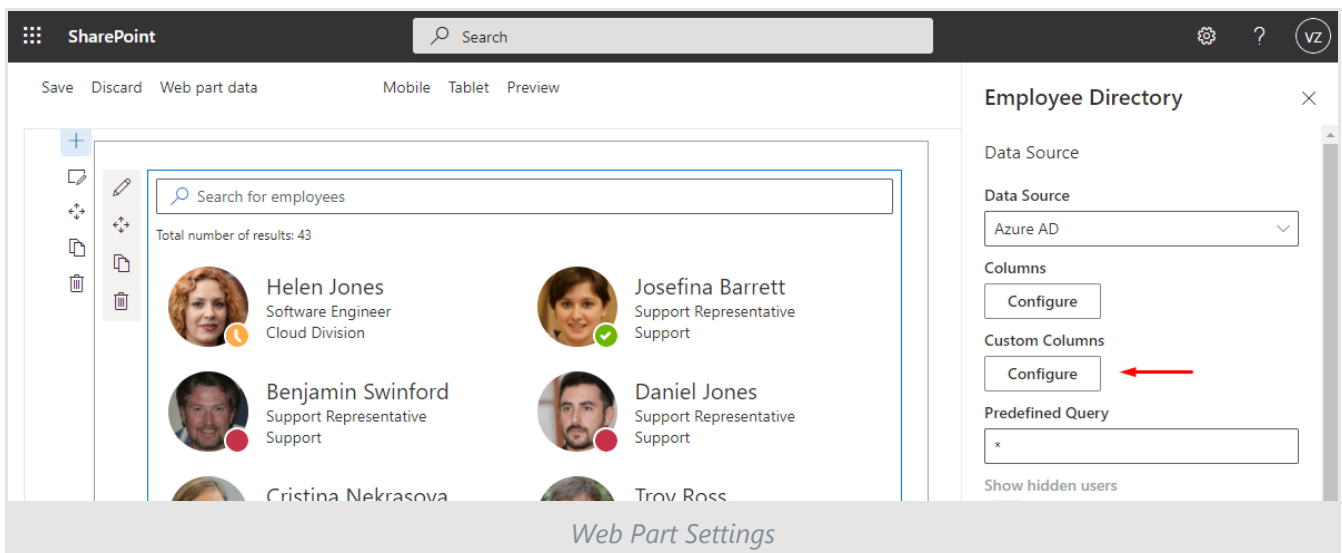
Key                                     Value
---                                     -
odata.metadata                         https://graph.windows....
odata.type                             Microsoft.DirectorySer...
createdDateTime                        3/4/2021 12:28:00 PM
employeeId
onPremisesDistinguishedName            CN=dbadmin,CN=Users,DC...
userIdentities                         []
extension_ebe3ddf036a240249e34ab0b31e354bd_ipPhone 2207
extension_ebe3ddf036a240249e34ab0b31e354bd_facsimileTelephoneNumber 555 4444-33-22

PS C:\> |
```

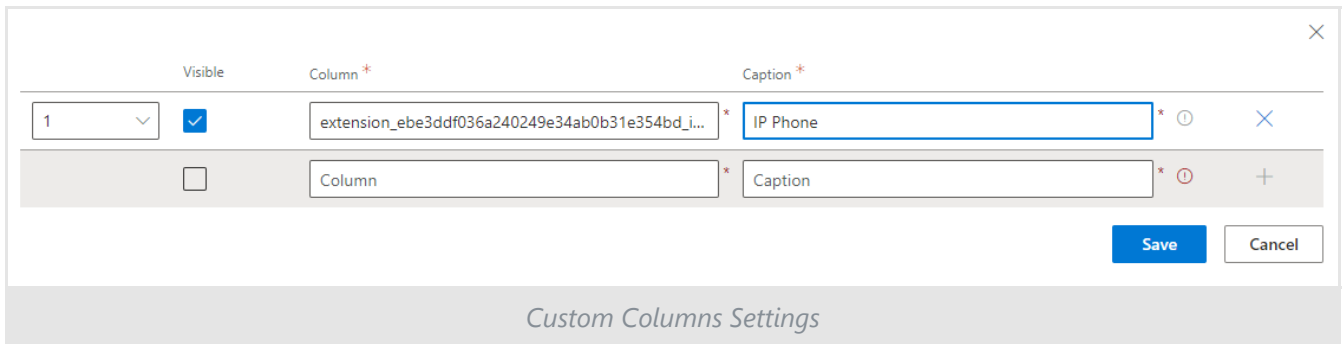
Extension Property of user object in Azure AD

Web Part Properties

Open the page where the Employee Directory web part is placed in edit mode and go to web part settings, and select **Configure** under *Custom Columns* heading:



Add custom attributes to the list and click **Save** button.



Visible	Column *	Caption *
<input checked="" type="checkbox"/>	extension_ebe3ddf036a240249e34ab0b31e354bd_j...	IP Phone
<input type="checkbox"/>	Column	Caption

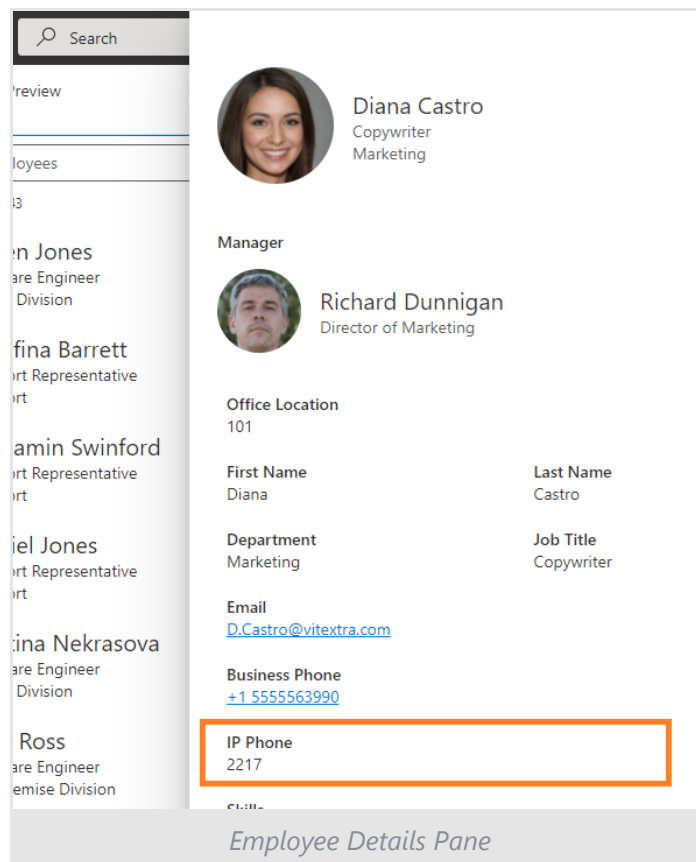
Save Cancel

Custom Columns Settings

Note

Both Employee Directory and Employee Directory (Azure AD) have similar settings according to custom user properties.

Once custom attributes are defined, marked as visible of them shows up on the employee details pane:



Search

review

employees

3

en Jones
are Engineer
Division


fina Barrett
ort Representative
ort

amin Swinford
ort Representative
ort


iel Jones
ort Representative
ort

ina Nekrasova
are Engineer
Division

Ross
are Engineer
emise Division

 Diana Castro
Copywriter
Marketing

Manager

 Richard Dunnigan
Director of Marketing

Office Location
101

First Name
Diana

Last Name
Castro

Department
Marketing

Job Title
Copywriter

Email
D.Castro@vitextra.com

Business Phone
[+1 5555563990](tel:+15555563990)

IP Phone
2217

Employee Details Pane

Publish the page to save changes.

Terms

Azure AD (Active Directory)

Azure Active Directory is a cloud-based identity provider which allows employees in your organization sign in and get access to Microsoft 365 as well as many other SaaS applications.